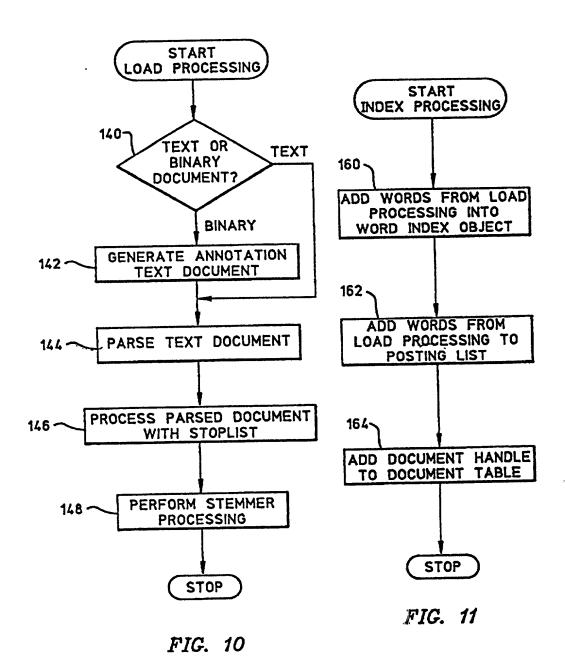


FIG. 9



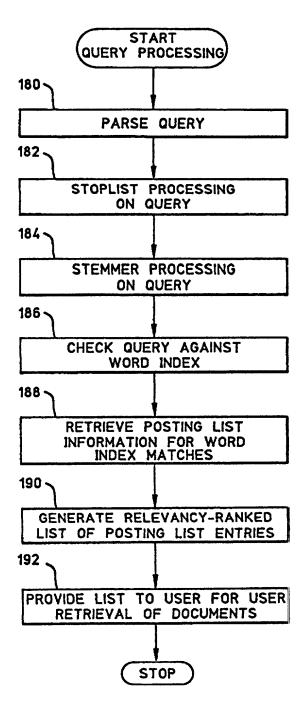


FIG. 12

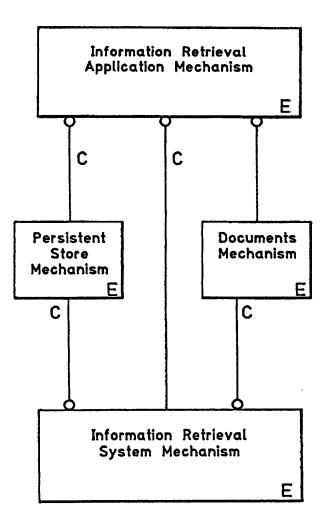
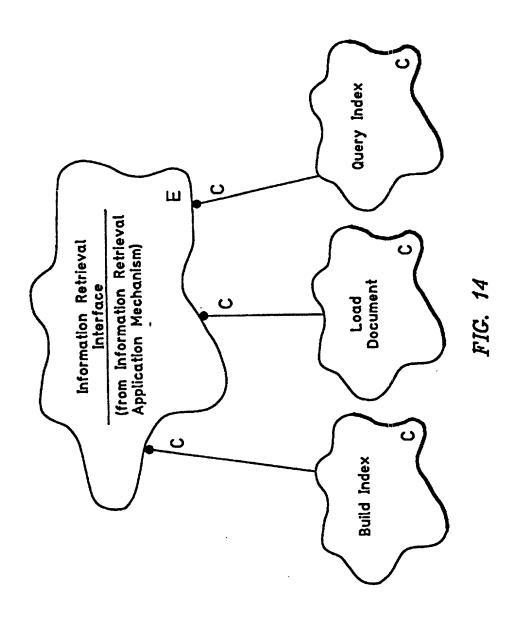
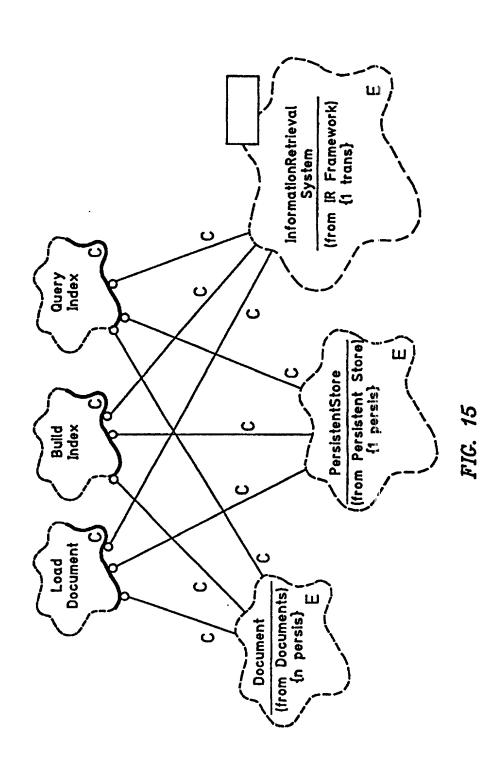
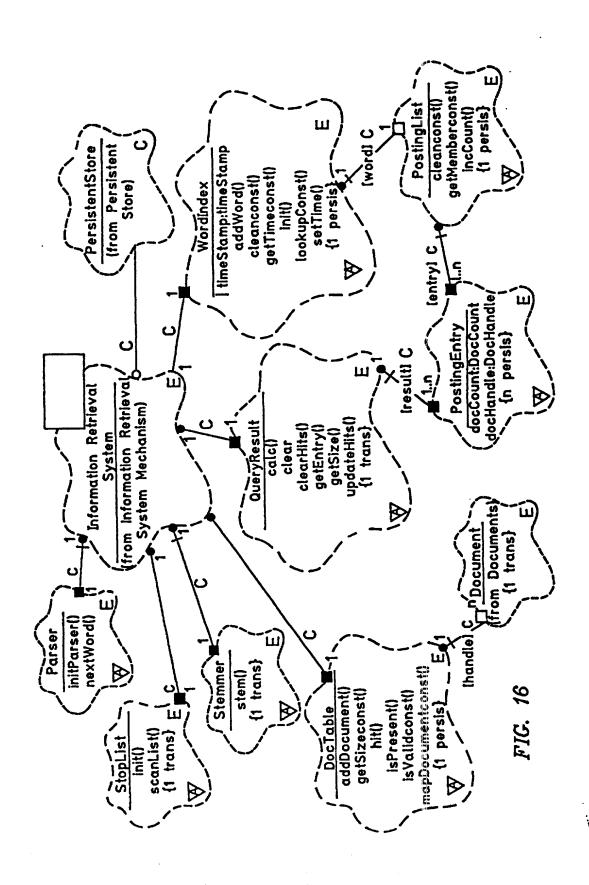
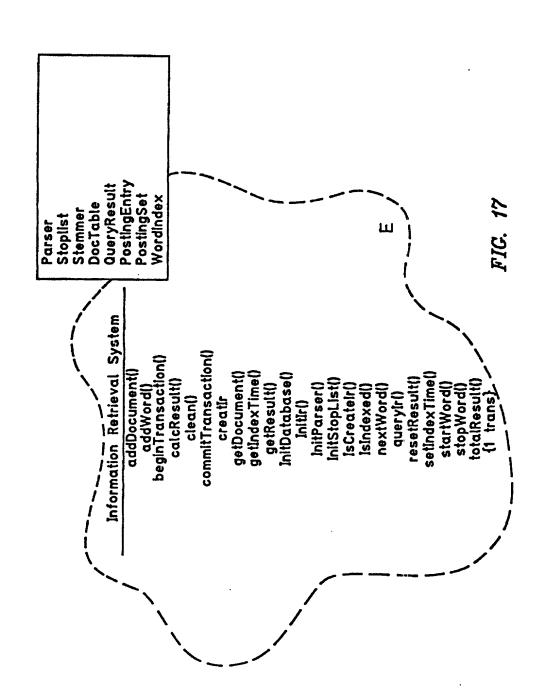


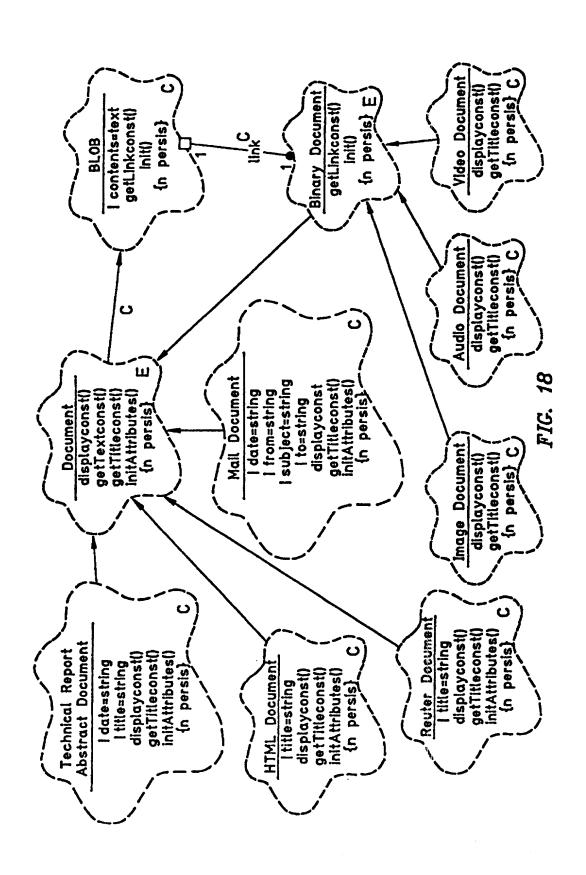
FIG. 13











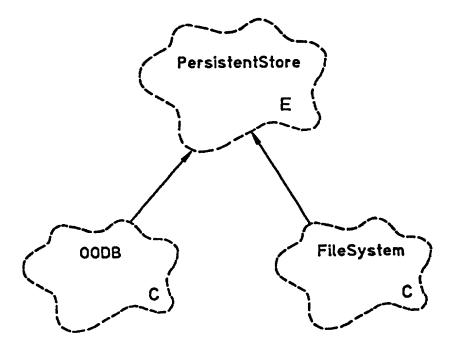


FIG. 19

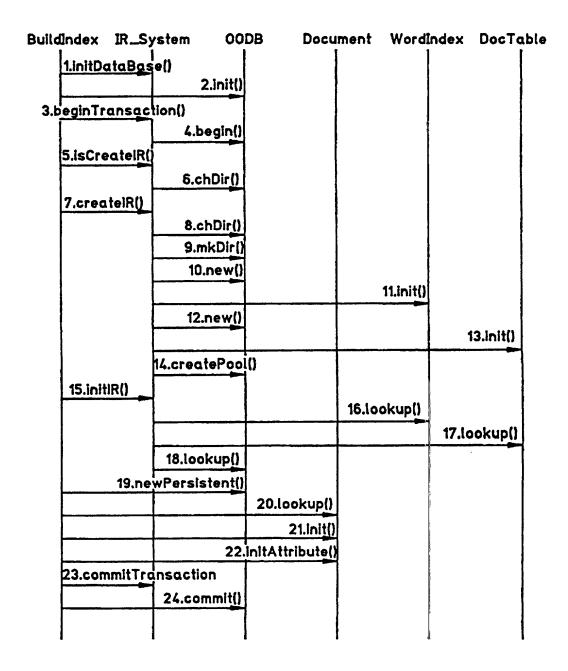


FIG. 20

| gList | | | | | | | | | | | | | | | | | | | FIC | |
|---------------------------------------|----------|------------------|----------|----------------------|-----------|---------------|-----------|------------|-------------|-------------|-------------|-------------------|--------------|-----------------|-------------------|--------------|---------------|------------|-------------------------|-------------|
| t PostingList | 2.Init() | | | - | | | | | - | | 12.lookup() | | | | | | | | | |
| StopList | | | | | | | | | · | | | | | | | | | | | |
| able | | | | | | | | | | | | | | | | | | | | |
| DocTable | | | | | | | | | | 11.lookup() | | | | - | | | | | | - |
| xəpu | | | | | | | | | | 11.10 | | | | | | | | | | |
| 3 WordIndex | | | | | | | | | 10.tookup() | | | | 14.getTime() | | | 17.setTime() | , | 19.stats() | | |
| stem 000B | | | 4.init() | iction() | 6.begin() | | 8.chDir() | | | | | ne() | • | | 18.0 | - | | | ction() | 21.commit() |
| Buildindex IR_System [1.initStopList] | | 3.initDataBase[] | | 5.beginTransaction() | | 7.isCreated() | | 9.initiR() | | | | 13.getIndexTime() | | 15.processDoc() | 16.setIndexTime() | | 18.getStats() | | 20, commitTransaction() | |

| Posting List | | | | | | <u></u> | | | | | | |
|-----------------|-----------|---------------|-----------------|-----------------|----------------|----------|---------------|---------------|---------------|---------------|--------------|-------------|
| StopList | | | | | | | | | 11.scanList() | | | |
| DocTable | | 3.isPresent() | | 5.addDocument() | | | ## ### | | 11.sc | | 15.update() | |
| Parser | | 3.6 | | 5.addD | | 7.init() | Open+Mord() | | | | | |
| Wordindex | - | | | | | | 5 | | | | 1 (1) | |
| Stemmer | | | | · | | | | | | 13.stem() | | |
| 8000 | 1.start() | | | : | | | | | | 13 | | |
| ndex IR_System | 1.5 | 2.isindexed() | 4.addDocument() | | 6.initParser() | | 8.nextWord() | 10.stopWord() | | 12.stemWord() | 14.addWord() | |
| Buildindex | | .131 | | 1 | ابي | | <u> </u> | | ! - | <u></u> | | |

FIG. 22

| StopList Posting | 2.init() | | | | | | | | | | | | 14.lookup() | | | 18.scanList() | - 6 | F1G. 23A | | |
|--|----------|------------------|----------|---------------------|-----------|--------------------|-----------|---------------|------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------------|-----------------|-------------|
| Parser DocTable StopList | | | | | | | | | | | | 13.lookup() | | Ş | | 18.5 | - 1 | F16. | | |
| | | | | | | | | | | | | <u></u> | | 16.nextWord() | | | | | | |
| Word Index | | | | | | | | | | | 12.lookup() | | | = | | | | | | 22.lookup() |
| Document Stemmer | | | | | | | | | | | | | | | | | | 20.stem() | • | 2 |
| | | | | | | | | | | | | | | | | | | 2 | | - |
| OB Result | | | | | 6.clear() | | | | | | | | | | | - | | | | 1 |
| BuildIndex IR_System 00DB f.initStopList() | | 0 | 4.init() | Result() | | action() | 8.begin() | | 10.chDir() | | | | | | | | | | | |
| uldIndex IR_ | | 3.InitDataBase() | | 5.resetQueryResult(| | 7.beginTransaction | | 9.isCreated() | | 11.initiR() | | | | 15.nextWord() | 17.stopWord() | | 19. STORMOTOL | | 21.queryindex() | . |
| Build f.in | _ | 3.1 | | ທີ | | 7.b | | 9.15 | | | | | | 15. | £ | (| 7. 7. | • #:. - | 21.9 | |

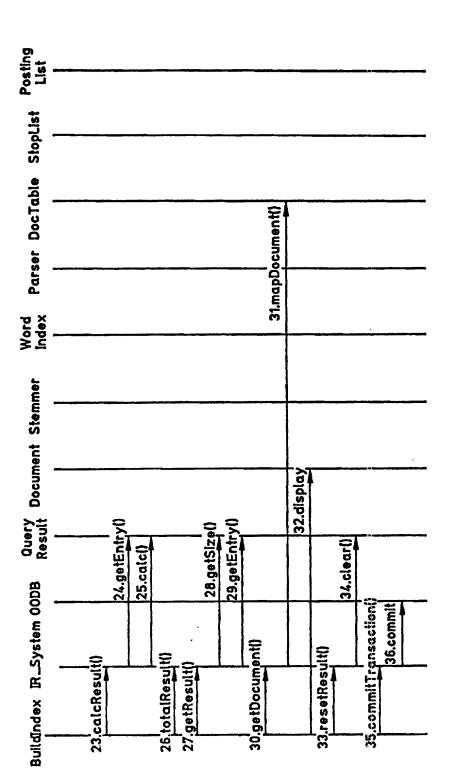


FIG. 23B